



May 5, 2011

Mr. Tony Duque
North Carolina Department of Natural Resources
Division of Waste Management
401 Overland Road
Raleigh, North Carolina 27605

Flemington Landfill

Reference: Stockpile Soil Sampling
Cape Fear Soccer Complex
211 Sutton Steam Plant Road
Wilmington, North Carolina
ECS Project No. 22-12830D

Dear Mr. Duque,

On behalf of the Cape Fear Soccer Complex, ECS is submitting the results from the sampling and analysis of stockpiled soil from the above referenced site.

Background information

Three light poles were installed along the southern side of Field 7 of the Cape Fear Soccer Complex (Figure 1). During the construction activity approximately 1 to 2 cubic yards of soil was excavated during the installation of the light poles. The soil was stockpiled on-site and covered with a black plastic tarp.

The Cape Fear Soccer Complex was redeveloped under a Brownfields Agreement between the site developer and the North Carolina Department of Environment and Natural Resources (NCDENR). As part of that agreement, the stockpiled soil was sampled and analyzed for Total Characteristic Leachate Potential (TCLP) for volatile organic compounds (VOCs), TCLP for semi-volatile organic compounds (VOCs) and TCLP for metals using EPA Methods 8260, 8270 and 6010 respectively. The scope of work was based on the Work Plan approved via email on April 12, 2011.

Field Activities

On April 15, 2011, ECS personnel collected one soil sample from each pile of soil. At the time of the sampling, there were two piles of stockpiled material on the southeastern corner of Field #7. One soil pile was approximately 1.5 cubic yards (Soil Pile #1) and the other soil pile was approximately 0.3 cubic yard (Soil Pile #2). The initial workplan involved collecting three discrete samples from depths of the each stock pile. The samples were to be submitted to the lab and composited at the lab. The stockpiles were, at most, 18 inches tall. Therefore, One composite sample (SP-1), consisting of three discrete samples was collected from Soil Pile #1. The three discrete samples were collected from Soil Pile #1, approximately 2 to 3 feet apart, and submitted to the lab for composition. Due the size and volume of Soil Pile #2, one single sample (SP-2) was collected. Photographs of the soil piles are included as an attachment.

ECS personnel did not observe obvious petroleum staining or petroleum odor during the sampling activity. A decontaminated hand auger was utilized to extract the soil from each pile. Prior to initiating each sample collection, the hand auger was decontaminated by washing in a solution of Alconox detergent and potable water, followed by a rinse with the potable water.

The soil samples were collected for laboratory analysis. The samples were placed in laboratory prepared containers using a new pair of disposable latex gloves. The glass jars and sample vials were labeled with the project name, sample location and the date and time that the sample was collected.

The sample containers were then placed in a cooler containing ice (4°C) and shipped overnight to Pace Analytical Laboratories, Inc. (Pace) in Huntersville, North Carolina for chemical analysis. Chain-of-custody procedures were maintained during the sample collection and transportation process. Chain-of-custody record and laboratory results are included as an attachment.

Laboratory Results

Soil samples SP-1 and SP-2 were analyzed for Total Characteristic Leachate Potential (TCLP) for volatile organic compounds (VOCs), TCLP for semi-volatile organic compounds (VOCs) and TCLP for metals using EPA Methods 8260, 8270 and 6010 respectively.

Laboratory analysis of the SP-1 did not detect targeted constituents in excess of laboratory concentration limits. The laboratory results for SP-2 indicated there were 0.064 mg/L of lead detected. The TCLP regulatory limit for lead is 5.0 mg/L. Therefore, the concentration of lead in SP-2 is not considered hazardous. The remaining target constituents in SP-2 were below the laboratory detection limits.

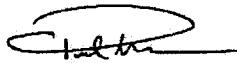
The laboratory data sheets and chain-of-custody record are included as an attachment.

Conclusions

ECS collected two soil samples (SP-1 and SP-2) from the stockpiled soil on the southeastern portion of the Field #7. The laboratory results for SP-2 indicated there were 0.064 mg/L of lead detected. The TCLP regulatory limit for lead is 5.0 mg/L. Therefore, the concentration of lead in SP-2 is not considered hazardous. Laboratory analysis of SP-1 and the remaining target constituents in SP-2 were not in excess of laboratory detection limits. Project information and the limited nature of the sampling performed is based on conversations between Mr. Tony Duque with NCDENR and Mr. Paul Pascarosa and Ms. Amy Conchas with ECS.

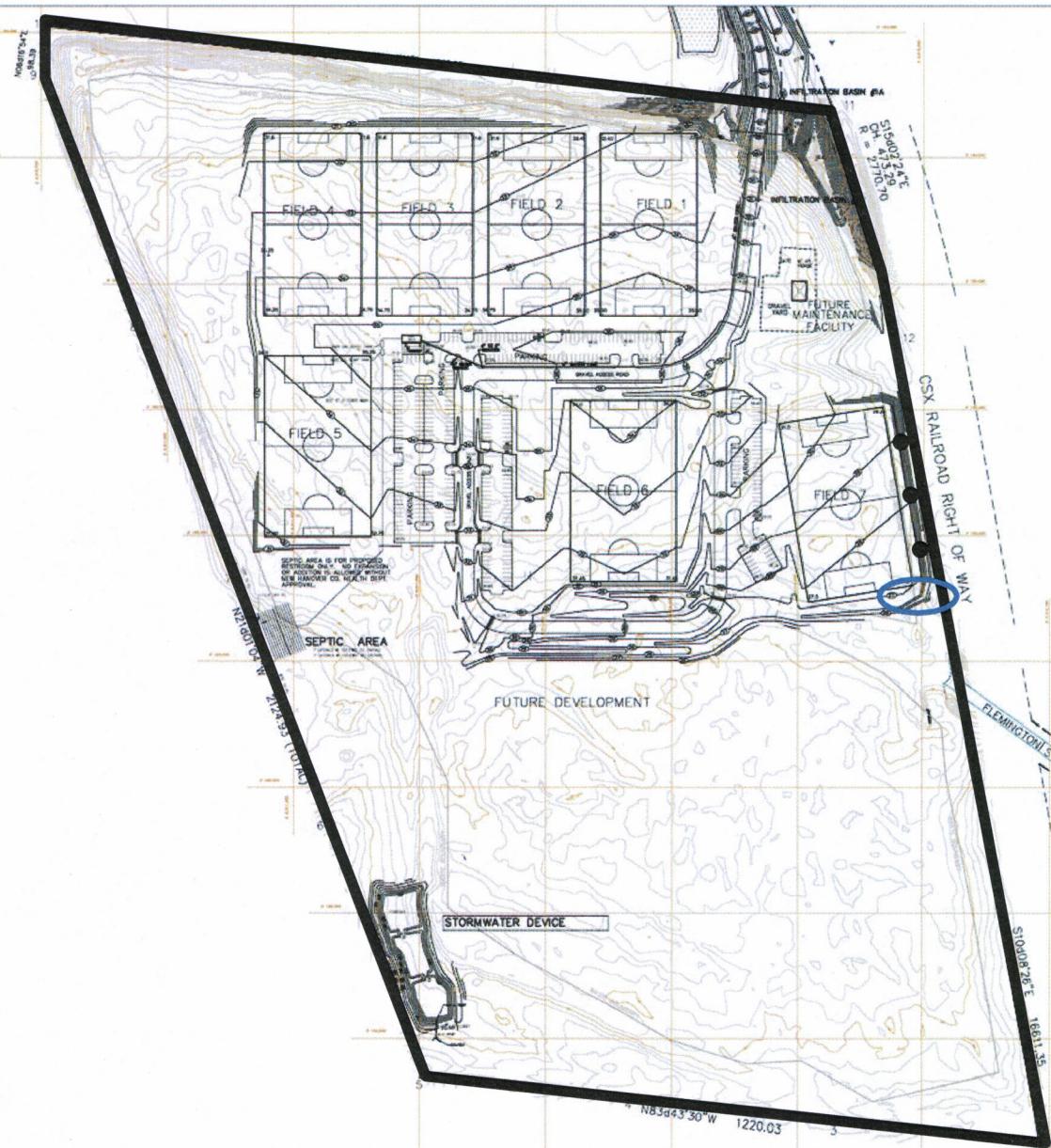
Respectfully,

ECS CAROLINAS, LLP


C. Paul Pascarosa
Project Scientist

cc. Mr. Frank Braxton
Mr. Peter Broadly


Stephen J. Gosselin, P.G.
Principal Geologist



LEGEND

- Site Boundary
- Approximate location of light poles
- Approximate area of stockpiled material



SOURCE:

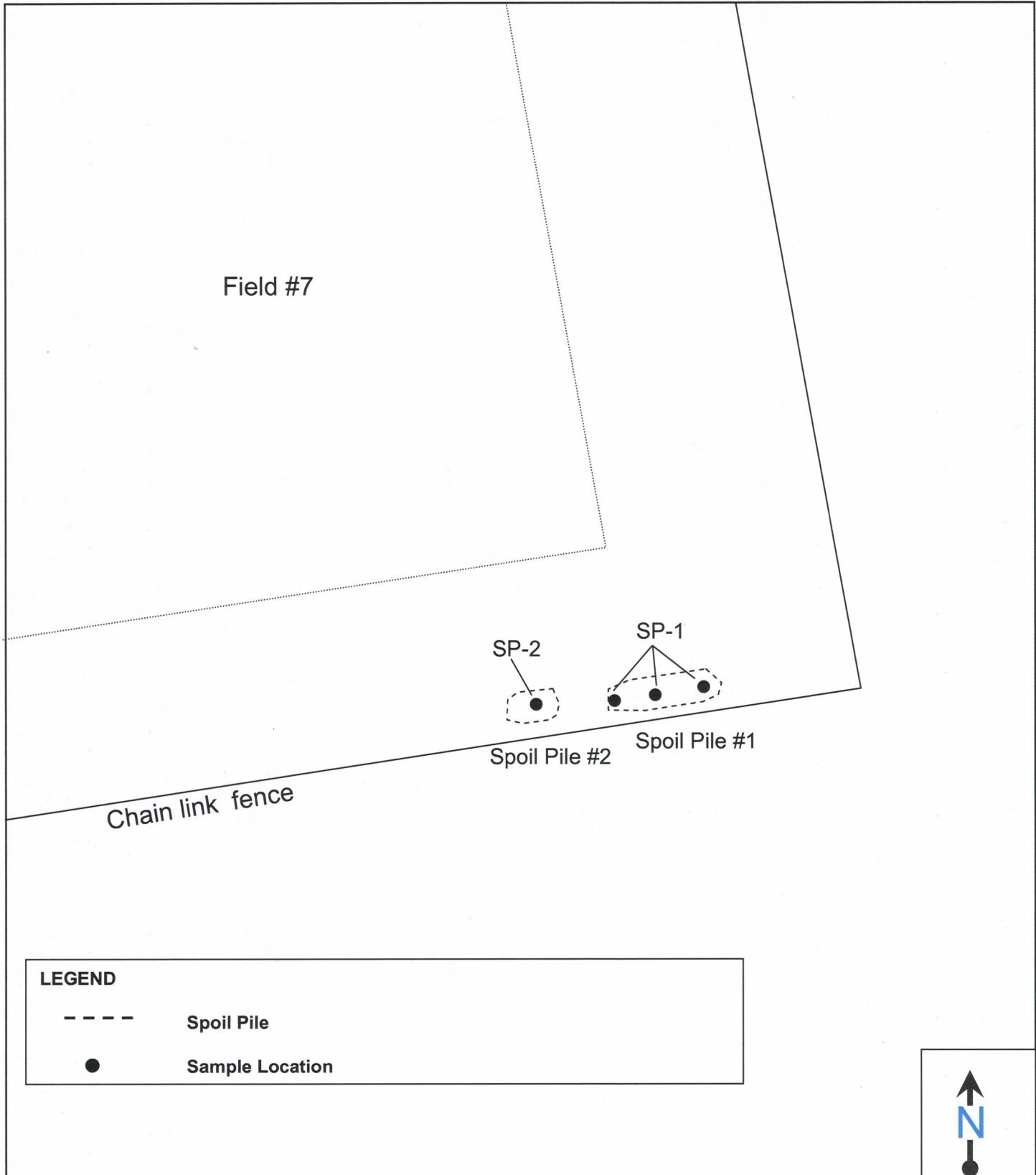
Coastal Land Design
Cape Fear Soccer Complex Monitoring
Well Plan

NOT TO SCALE



Figure 1. Site Map
Stockpile Sampling
Cape Fear Soccer Complex
211 Sutton Steam Plant Road
Wilmington, North Carolina 28403

ECS Project No. 22-12830D



SOURCE:
Drawing based on field observations and
an excerpt from the Coastal Land Design
Cape Fear Soccer Complex Monitoring
Well Plan

Scale 1" ~ 10'



Figure 1. Sample Location Map
Stockpile Sampling
Cape Fear Soccer Complex
211 Sutton Steam Plant Road
Wilmington, North Carolina 28403

ECS Project No. 22-12830D

**Stockpile Soil Sampling
Cape Fear Soccer Complex
Site Photograph**



Photograph 1. Stockpile soil along chain link fence



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Huntersville, NC 28078
(704)875-9092

April 27, 2011

Paul Pascarosa
ECS
7211 Ogden Business Park
Wilmington, NC 28411

RE: Project: STOCKPILE SOIL 4/15
Pace Project No.: 9292185

Dear Paul Pascarosa:

Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Ashley Nifong'.

Ashley Nifong

ashley.nifong@pacelabs.com
Project Manager

Enclosures

cc: Ms. Amy Conchas, ECS

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: STOCKPILE SOIL 4/15
 Pace Project No.: 9292185

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
 Louisiana/LELAP Certification #: 04034
 New Jersey Certification #: NC012
 North Carolina Drinking Water Certification #: 37706
 North Carolina Field Services Certification #: 5342
 North Carolina Wastewater Certification #: 12
 Pennsylvania Certification #: 68-00784
 South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003
 Virginia Certification #: 00213
 Connecticut Certification #: PH-0104
 Florida/NELAP Certification #: E87627
 Kentucky UST Certification #: 84
 Louisiana DHH Drinking Water # LA 100031
 West Virginia Certification #: 357

Asheville Certification IDs

2225 Riverside Dr., Asheville, NC 28804
 Connecticut Certification #: PH-0106
 Florida/NELAP Certification #: E87648
 Massachusetts Certification #: M-NC030
 New Jersey Certification #: NC011
 North Carolina Bioassay Certification #: 9
 North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
 Pennsylvania Certification #: 68-03578
 South Carolina Bioassay Certification #: 99030002
 South Carolina Certification #: 99030001
 Virginia Certification #: 00072
 West Virginia Certification #: 356

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SAMPLE ANALYTE COUNT

Project: STOCKPILE SOIL 4/15

Pace Project No.: 9292185

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9292185001	SP-1	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8270	PPM	18	PASI-C
		EPA 8260	DLK	15	PASI-C
9292185002	SP-2	EPA 6010	JMW	7	PASI-A
		EPA 7470	SHB	1	PASI-A
		EPA 8270	PPM	18	PASI-C
		EPA 8260	DLK	15	PASI-C

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ANALYTICAL RESULTS

Project: STOCKPILE SOIL 4/15

Pace Project No.: 9292185

Sample: SP-1 Lab ID: 9292185001 Collected: 04/15/11 13:00 Received: 04/16/11 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1311; 04/23/11 12:30							
Arsenic	ND mg/L		0.025	1	04/25/11 13:30	04/26/11 09:33	7440-38-2	
Barium	ND mg/L		0.50	1	04/25/11 13:30	04/26/11 09:33	7440-39-3	
Cadmium	ND mg/L		0.0050	1	04/25/11 13:30	04/26/11 09:33	7440-43-9	
Chromium	ND mg/L		0.025	1	04/25/11 13:30	04/26/11 09:33	7440-47-3	
Lead	ND mg/L		0.025	1	04/25/11 13:30	04/26/11 09:33	7439-92-1	
Selenium	ND mg/L		0.10	1	04/25/11 13:30	04/26/11 09:33	7782-49-2	
Silver	ND mg/L		0.025	1	04/25/11 13:30	04/26/11 09:33	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
	Leachate Method/Date: EPA 1311; 04/23/11 12:30							
Mercury	ND ug/L		0.20	1	04/25/11 14:50	04/26/11 13:07	7439-97-6	
8270 MSSV TCLP Sep Funnel	Analytical Method: EPA 8270 Preparation Method: EPA 3510							
	Leachate Method/Date: EPA 1311; 04/20/11 12:00							
1,4-Dichlorobenzene	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:18	106-46-7	
2,4-Dinitrotoluene	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:18	121-14-2	
Hexachloro-1,3-butadiene	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:18	87-68-3	
Hexachlorobenzene	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:18	118-74-1	
Hexachloroethane	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:18	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:18	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:18		
Nitrobenzene	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:18	98-95-3	
Pentachlorophenol	ND ug/L		100	1	04/25/11 14:40	04/26/11 17:18	87-86-5	
Pyridine	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:18	110-86-1	
2,4,5-Trichlorophenol	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:18	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:18	88-06-2	
Nitrobenzene-d5 (S)	60 %		12-102	1	04/25/11 14:40	04/26/11 17:18	4165-60-0	
2-Fluorobiphenyl (S)	53 %		13-107	1	04/25/11 14:40	04/26/11 17:18	321-60-8	
Terphenyl-d14 (S)	73 %		21-132	1	04/25/11 14:40	04/26/11 17:18	1718-51-0	
Phenol-d6 (S)	22 %		10-110	1	04/25/11 14:40	04/26/11 17:18	13127-88-3	
2-Fluorophenol (S)	35 %		10-110	1	04/25/11 14:40	04/26/11 17:18	367-12-4	
2,4,6-Tribromophenol (S)	54 %		27-108	1	04/25/11 14:40	04/26/11 17:18	118-79-6	
8260 MSV TCLP	Analytical Method: EPA 8260							
Benzene	ND ug/L		125	25		04/26/11 23:26	71-43-2	
2-Butanone (MEK)	ND ug/L		250	25		04/26/11 23:26	78-93-3	
Carbon tetrachloride	ND ug/L		125	25		04/26/11 23:26	56-23-5	
Chlorobenzene	ND ug/L		125	25		04/26/11 23:26	108-90-7	
Chloroform	ND ug/L		125	25		04/26/11 23:26	67-66-3	
1,4-Dichlorobenzene	ND ug/L		125	25		04/26/11 23:26	106-46-7	
1,2-Dichloroethane	ND ug/L		125	25		04/26/11 23:26	107-06-2	
1,1-Dichloroethene	ND ug/L		125	25		04/26/11 23:26	75-35-4	
Tetrachloroethene	ND ug/L		125	25		04/26/11 23:26	127-18-4	
Trichloroethene	ND ug/L		125	25		04/26/11 23:26	79-01-6	

Date: 04/27/2011 03:44 PM

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ANALYTICAL RESULTS

Project: STOCKPILE SOIL 4/15

Pace Project No.: 9292185

Sample: SP-1 Lab ID: 9292185001 Collected: 04/15/11 13:00 Received: 04/16/11 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP Analytical Method: EPA 8260								
Vinyl chloride	ND ug/L		125	25		04/26/11 23:26	75-01-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	25		04/26/11 23:26	17060-07-0	
Toluene-d8 (S)	102 %		67-135	25		04/26/11 23:26	2037-26-5	
4-Bromofluorobenzene (S)	98 %		70-130	25		04/26/11 23:26	460-00-4	
Dibromofluoromethane (S)	99 %		70-130	25		04/26/11 23:26	1868-53-7	

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ANALYTICAL RESULTS

Project: STOCKPILE SOIL 4/15

Pace Project No.: 9292185

Sample: SP-2 Lab ID: 9292185002 Collected: 04/15/11 13:20 Received: 04/16/11 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP		Analytical Method: EPA 6010 Preparation Method: EPA 3010						
		Leachate Method/Date: EPA 1311; 04/23/11 12:30						
Arsenic	ND mg/L		0.025	1	04/25/11 13:30	04/26/11 09:40	7440-38-2	
Barium	ND mg/L		0.50	1	04/25/11 13:30	04/26/11 09:40	7440-39-3	
Cadmium	ND mg/L		0.0050	1	04/25/11 13:30	04/26/11 09:40	7440-43-9	
Chromium	ND mg/L		0.025	1	04/25/11 13:30	04/26/11 09:40	7440-47-3	
Lead	0.064 mg/L		0.025	1	04/25/11 13:30	04/26/11 09:40	7439-92-1	
Selenium	ND mg/L		0.10	1	04/25/11 13:30	04/26/11 09:40	7782-49-2	
Silver	ND mg/L		0.025	1	04/25/11 13:30	04/26/11 09:40	7440-22-4	
7470 Mercury, TCLP		Analytical Method: EPA 7470 Preparation Method: EPA 7470						
		Leachate Method/Date: EPA 1311; 04/23/11 12:30						
Mercury	ND ug/L		0.20	1	04/25/11 14:50	04/26/11 13:12	7439-97-6	
8270 MSSV TCLP Sep Funnel		Analytical Method: EPA 8270 Preparation Method: EPA 3510						
		Leachate Method/Date: EPA 1311; 04/20/11 12:00						
1,4-Dichlorobenzene	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:45	106-46-7	
2,4-Dinitrotoluene	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:45	121-14-2	
Hexachloro-1,3-butadiene	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:45	87-68-3	
Hexachlorobenzene	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:45	118-74-1	
Hexachloroethane	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:45	67-72-1	
2-Methylphenol(o-Cresol)	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:45		
Nitrobenzene	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:45	98-95-3	
Pentachlorophenol	ND ug/L		100	1	04/25/11 14:40	04/26/11 17:45	87-86-5	
Pyridine	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:45	110-86-1	
2,4,5-Trichlorophenol	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:45	95-95-4	
2,4,6-Trichlorophenol	ND ug/L		50.0	1	04/25/11 14:40	04/26/11 17:45	88-06-2	
Nitrobenzene-d5 (S)	56 %		12-102	1	04/25/11 14:40	04/26/11 17:45	4165-60-0	
2-Fluorobiphenyl (S)	55 %		13-107	1	04/25/11 14:40	04/26/11 17:45	321-60-8	
Terphenyl-d14 (S)	71 %		21-132	1	04/25/11 14:40	04/26/11 17:45	1718-51-0	
Phenol-d6 (S)	20 %		10-110	1	04/25/11 14:40	04/26/11 17:45	13127-88-3	
2-Fluorophenol (S)	31 %		10-110	1	04/25/11 14:40	04/26/11 17:45	367-12-4	
2,4,6-Tribromophenol (S)	53 %		27-108	1	04/25/11 14:40	04/26/11 17:45	118-79-6	
8260 MSV TCLP		Analytical Method: EPA 8260						
Benzene	ND ug/L		125	25		04/26/11 23:46	71-43-2	
2-Butanone (MEK)	ND ug/L		250	25		04/26/11 23:46	78-93-3	
Carbon tetrachloride	ND ug/L		125	25		04/26/11 23:46	56-23-5	
Chlorobenzene	ND ug/L		125	25		04/26/11 23:46	108-90-7	
Chloroform	ND ug/L		125	25		04/26/11 23:46	67-66-3	
1,4-Dichlorobenzene	ND ug/L		125	25		04/26/11 23:46	106-46-7	
1,2-Dichloroethane	ND ug/L		125	25		04/26/11 23:46	107-06-2	
1,1-Dichloroethene	ND ug/L		125	25		04/26/11 23:46	75-35-4	
Tetrachloroethylene	ND ug/L		125	25		04/26/11 23:46	127-18-4	
Trichloroethylene	ND ug/L		125	25		04/26/11 23:46	79-01-6	

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ANALYTICAL RESULTS

Project: STOCKPILE SOIL 4/15

Pace Project No.: 9292185

Sample: SP-2 Lab ID: 9292185002 Collected: 04/15/11 13:20 Received: 04/16/11 09:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV TCLP	Analytical Method: EPA 8260							
Vinyl chloride	ND ug/L		125	25		04/26/11 23:46	75-01-4	
1,2-Dichloroethane-d4 (S)	97 %		70-130	25		04/26/11 23:46	17060-07-0	
Toluene-d8 (S)	102 %		67-135	25		04/26/11 23:46	2037-26-5	
4-Bromofluorobenzene (S)	97 %		70-130	25		04/26/11 23:46	460-00-4	
Dibromofluoromethane (S)	99 %		70-130	25		04/26/11 23:46	1868-53-7	

Date: 04/27/2011 03:44 PM

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QUALITY CONTROL DATA

Project: STOCKPILE SOIL 4/15

Pace Project No.: 9292185

QC Batch:	MPRP/8249	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET TCLP
Associated Lab Samples:	9292185001, 9292185002		

METHOD BLANK: 596028 Matrix: Water

Associated Lab Samples: 9292185001, 9292185002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.025	04/26/11 03:25	
Barium	mg/L	ND	0.50	04/26/11 03:25	
Cadmium	mg/L	ND	0.0050	04/26/11 03:25	
Chromium	mg/L	ND	0.025	04/26/11 03:25	
Lead	mg/L	ND	0.025	04/26/11 03:25	
Selenium	mg/L	ND	0.10	04/26/11 03:25	
Silver	mg/L	ND	0.025	04/26/11 03:25	

LABORATORY CONTROL SAMPLE: 596029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	2.5	2.7	107	80-120	
Barium	mg/L	2.5	2.6	104	80-120	
Cadmium	mg/L	2.5	2.4	98	80-120	
Chromium	mg/L	2.5	2.4	95	80-120	
Lead	mg/L	2.5	2.3	91	80-120	
Selenium	mg/L	2.5	2.8	112	80-120	
Silver	mg/L	1.2	1.3	104	80-120	

MATRIX SPIKE SAMPLE: 596030

Parameter	Units	9292185001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	ND	2.5	2.4	97	75-125	
Barium	mg/L	ND	2.5	2.4	89	75-125	
Cadmium	mg/L	ND	2.5	2.3	91	75-125	
Chromium	mg/L	ND	2.5	2.2	89	75-125	
Lead	mg/L	ND	2.5	2.1	85	75-125	
Selenium	mg/L	ND	2.5	2.5	100	75-125	
Silver	mg/L	ND	1.2	1.2	96	75-125	

SAMPLE DUPLICATE: 596031

Parameter	Units	9292185002 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/L	ND	ND		
Barium	mg/L	ND	.18J		
Cadmium	mg/L	ND	ND		
Chromium	mg/L	ND	.0026J		
Lead	mg/L	0.064	0.072	12	

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(704)875-9092

QUALITY CONTROL DATA

Project: STOCKPILE SOIL 4/15

Pace Project No.: 9292185

SAMPLE DUPLICATE: 596031

Parameter	Units	9292185002 Result	Dup Result	RPD	Qualifiers
Selenium	mg/L	ND	ND		
Silver	mg/L	ND	.0052J		

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QUALITY CONTROL DATA

Project: STOCKPILE SOIL 4/15

Pace Project No.: 9292185

QC Batch:	MERP/3429	Analysis Method:	EPA 7470
QC Batch Method:	EPA 7470	Analysis Description:	7470 Mercury TCLP
Associated Lab Samples:	9292185001, 9292185002		

METHOD BLANK: 596032 Matrix: Water

Associated Lab Samples: 9292185001, 9292185002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	04/26/11 12:25	

LABORATORY CONTROL SAMPLE: 596033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	2.7	109	80-120	

MATRIX SPIKE SAMPLE: 596034

Parameter	Units	9292185001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.3	92	75-125	

SAMPLE DUPLICATE: 596035

Parameter	Units	9292185002 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	ND		

QUALITY CONTROL DATA

Project: STOCKPILE SOIL 4/15

Pace Project No.: 9292185

QC Batch:	OEXT/13348	Analysis Method:	EPA 8270
QC Batch Method:	EPA 3510	Analysis Description:	8270 TCLP MSSV
Associated Lab Samples:	9292185001, 9292185002		

METHOD BLANK: 595983 Matrix: Water

Associated Lab Samples: 9292185001, 9292185002

Parameter	Units	Blank Result	Reporting Limit		Qualifiers
			Analyzed		
1,4-Dichlorobenzene	ug/L	ND	50.0	04/26/11 15:55	
2,4,5-Trichlorophenol	ug/L	ND	50.0	04/26/11 15:55	
2,4,6-Trichlorophenol	ug/L	ND	50.0	04/26/11 15:55	
2,4-Dinitrotoluene	ug/L	ND	50.0	04/26/11 15:55	
2-Methylphenol(o-Cresol)	ug/L	ND	50.0	04/26/11 15:55	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	50.0	04/26/11 15:55	
Hexachloro-1,3-butadiene	ug/L	ND	50.0	04/26/11 15:55	
Hexachlorobenzene	ug/L	ND	50.0	04/26/11 15:55	
Hexachloroethane	ug/L	ND	50.0	04/26/11 15:55	
Nitrobenzene	ug/L	ND	50.0	04/26/11 15:55	
Pentachlorophenol	ug/L	ND	100	04/26/11 15:55	
Pyridine	ug/L	ND	50.0	04/26/11 15:55	
2,4,6-Tribromophenol (S)	%	17	27-108	04/26/11 15:55	S0
2-Fluorobiphenyl (S)	%	59	13-107	04/26/11 15:55	
2-Fluorophenol (S)	%	22	10-110	04/26/11 15:55	
Nitrobenzene-d5 (S)	%	67	12-102	04/26/11 15:55	
Phenol-d6 (S)	%	21	10-110	04/26/11 15:55	
Terphenyl-d14 (S)	%	79	21-132	04/26/11 15:55	

LABORATORY CONTROL SAMPLE: 595984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits		Qualifiers
1,4-Dichlorobenzene	ug/L	500	255	51	10-110		
2,4,5-Trichlorophenol	ug/L	500	329	66	39-108		
2,4,6-Trichlorophenol	ug/L	500	338	68	40-104		
2,4-Dinitrotoluene	ug/L	500	360	72	42-109		
2-Methylphenol(o-Cresol)	ug/L	500	317	63	31-110		
3&4-Methylphenol(m&p Cresol)	ug/L	500	296	59	30-110		
Hexachloro-1,3-butadiene	ug/L	500	236	47	10-110		
Hexachlorobenzene	ug/L	500	359	72	39-121		
Hexachloroethane	ug/L	500	235	47	10-110		
Nitrobenzene	ug/L	500	364	73	32-101		
Pentachlorophenol	ug/L	1000	377	38	18-108		
Pyridine	ug/L	500	257	51	10-110		
2,4,6-Tribromophenol (S)	%			65	27-108		
2-Fluorobiphenyl (S)	%			67	13-107		
2-Fluorophenol (S)	%			43	10-110		
Nitrobenzene-d5 (S)	%			72	12-102		
Phenol-d6 (S)	%			27	10-110		
Terphenyl-d14 (S)	%			69	21-132		

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QUALITY CONTROL DATA

Project: STOCKPILE SOIL 4/15

Pace Project No.: 9292185

Parameter	Units	9291963001		595985		595986		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	MS Spike Conc.	MS Result	MSD Result							
1,4-Dichlorobenzene	ug/L	ND	500	500	281	218	56	44	30-150	25		
2,4,5-Trichlorophenol	ug/L	ND	500	500	380	361	76	72	30-150	5		
2,4,6-Trichlorophenol	ug/L	ND	500	500	383	383	77	77	30-150	0		
2,4-Dinitrotoluene	ug/L	ND	500	500	389	433	78	87	30-150	11		
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	368	326	74	65	30-150	12		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	500	500	334	288	67	58	30-150	15		
Hexachloro-1,3-butadiene	ug/L	ND	500	500	267	234	53	47	30-150	13		
Hexachlorobenzene	ug/L	ND	500	500	383	338	77	68	30-150	12		
Hexachloroethane	ug/L	ND	500	500	263	195	53	39	30-150	30		
Nitrobenzene	ug/L	ND	500	500	410	370	82	74	30-150	10		
Pentachlorophenol	ug/L	ND	1000	1000	581	793	58	79	30-150	31 R1		
Pyridine	ug/L	ND	500	500	279	187	56	37	30-150	40 R1		
2,4,6-Tribromophenol (S)	%						73	77	27-108			
2-Fluorobiphenyl (S)	%						70	62	13-107			
2-Fluorophenol (S)	%						47	39	10-110			
Nitrobenzene-d5 (S)	%						78	78	12-102			
Phenol-d6 (S)	%						30	25	10-110			
Terphenyl-d14 (S)	%						79	69	21-132			

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QUALITY CONTROL DATA

Project: STOCKPILE SOIL 4/15

Pace Project No.: 9292185

QC Batch: MSV/14951 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV TCLP
Associated Lab Samples: 9292185001, 9292185002

METHOD BLANK: 596375 Matrix: Water

Associated Lab Samples: 9292185001, 9292185002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethene	ug/L	ND	5.0	04/26/11 15:03	
1,2-Dichloroethane	ug/L	ND	5.0	04/26/11 15:03	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/26/11 15:03	
2-Butanone (MEK)	ug/L	ND	10.0	04/26/11 15:03	
Benzene	ug/L	ND	5.0	04/26/11 15:03	
Carbon tetrachloride	ug/L	ND	5.0	04/26/11 15:03	
Chlorobenzene	ug/L	ND	5.0	04/26/11 15:03	
Chloroform	ug/L	ND	5.0	04/26/11 15:03	
Tetrachloroethene	ug/L	ND	5.0	04/26/11 15:03	
Trichloroethene	ug/L	ND	5.0	04/26/11 15:03	
Vinyl chloride	ug/L	ND	5.0	04/26/11 15:03	
1,2-Dichloroethane-d4 (S)	%	102	70-130	04/26/11 15:03	
4-Bromofluorobenzene (S)	%	98	70-130	04/26/11 15:03	
Dibromofluoromethane (S)	%	104	70-130	04/26/11 15:03	
Toluene-d8 (S)	%	103	67-135	04/26/11 15:03	

LABORATORY CONTROL SAMPLE: 596376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethene	ug/L	50	50.2	100	70-141	
1,2-Dichloroethane	ug/L	50	52.4	105	70-139	
1,4-Dichlorobenzene	ug/L	50	50.0	100	70-141	
2-Butanone (MEK)	ug/L	100	121	121	63-150	
Benzene	ug/L	50	51.8	104	70-132	
Carbon tetrachloride	ug/L	50	48.9	98	70-150	
Chlorobenzene	ug/L	50	48.2	96	70-134	
Chloroform	ug/L	50	62.1	124	70-130	
Tetrachloroethene	ug/L	50	51.5	103	70-137	
Trichloroethene	ug/L	50	52.6	105	70-131	
Vinyl chloride	ug/L	50	46.2	92	56-144	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			102	67-135	

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QUALIFIERS

Project: STOCKPILE SOIL 4/15
Pace Project No.: 9292185

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-A Pace Analytical Services - Asheville
PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

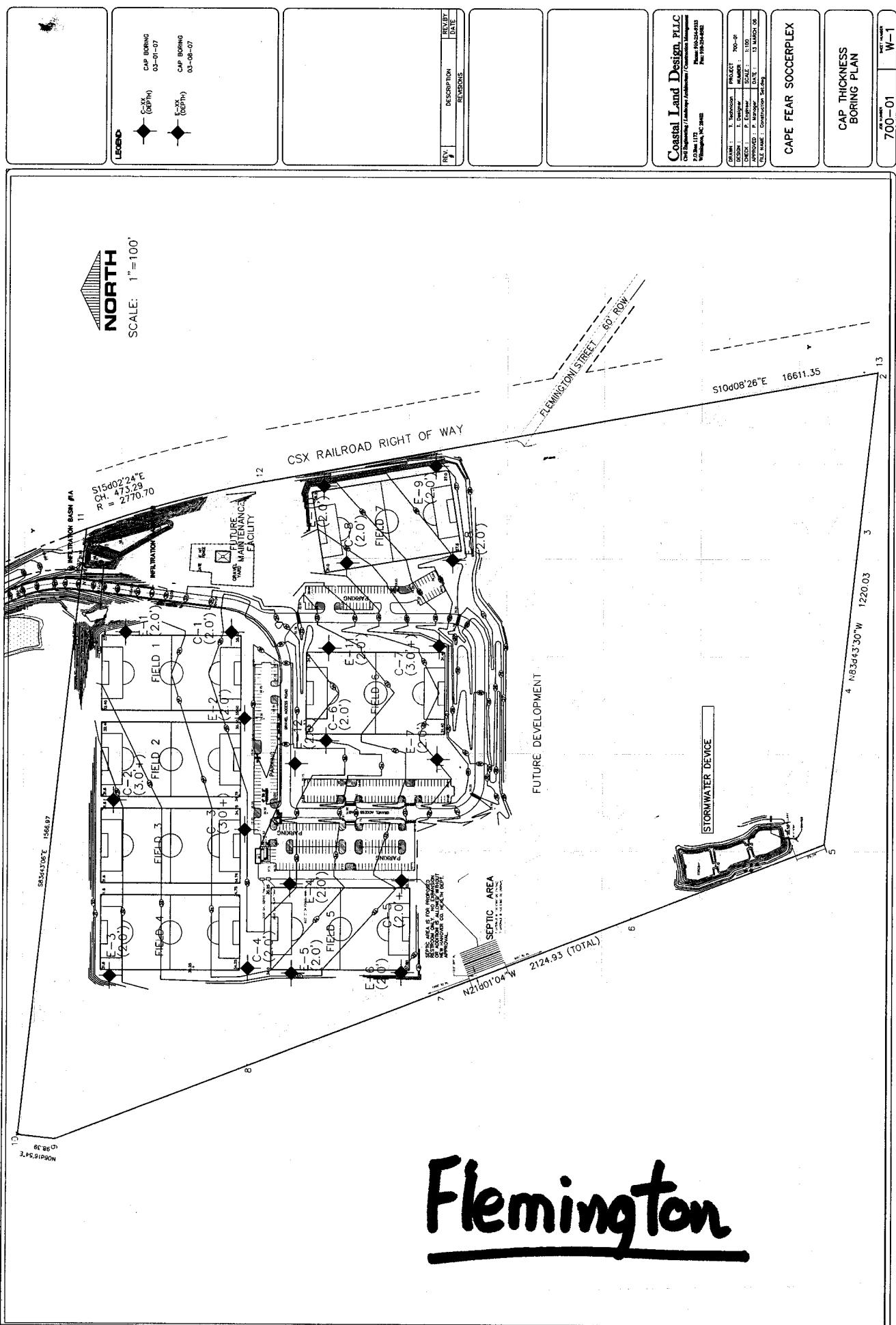
S0 Surrogate recovery outside laboratory control limits.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a **LEGAL DOCUMENT**. All relevant fields must be completed accurately.

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



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